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labeled GA [19] and the PSTN gateway, labeled PSTN-G [4]. The DASP domain network components are the DASP gateway, labeled DASP-G [6] and the DASP data network [5]. The VMS-P [14] and the VMS gateway, labeled VMS-G [5]. For conciseness, the VMS gateway [5] is shown as being port of the VMS-SP domain. However, depending on the implementation, the VMS gateway [5] component may be outside of the VMS-SP domain and may be part of the PSTN domain. The CPE domain components are the caller's telephone [15], the DASP subscriber's telephone [17] and computer [16] and the CPE gateway, labeled CPE-G[18].

IN THE CLAIMS

Cancel claims 38 and 44; amend claims 31, 37, 39, 40, and 45; insert new claim 56-61 as follows:

31. (amended) The notification server of claim 30, wherein said processor is further operable to dispatch a signaling message to said signaling network to establish a path on said traffic carrying telephony network between said caller and said specified telephone line, in response to receiving said call disposition response.

37.(amended) A switching point, within an advanced intelligent network (AIN) telephony signaling network, said signaling network for carrying signaling information relevant to the establishment of call paths on a traffic carrying telephony network, said switching point operable to dispatch an AIN termination attempt message on said signaling network in response to an incoming call directed to a specified subscriber telephone line in use to connect a data terminal to a data network using said traffic carrying telephony network, to a telephony network gateway in communication with a data network gateway, said data network gateway operable to dispatch a data message from said over said data network to said data terminal, as a consequence of said AIN termination attempt message.

39.(amended) The switching point of claim 37, wherein said switching point is

operable to generate said AIN termination attempt message in response to an AIN termination attempt trigger generated at said switching point.

40.(amended) A processing element for interconnection with a communications signaling network carrying signals relevant to establishing call paths on a traffic carrying telephone network, said processing element comprising:

a first interface for connecting said processing element with an advanced intelligent network (AIN) signaling network in communication with a switch on said traffic carrying telephone network;

a second interface for connecting said processing element with a data network gateway for dispatching data messages on a data network;

said processing element operable to dispatch a first message to said data network gateway by way of said second interface in response to receiving an AIN signaling message by way of said first interface, said signal indicative of an incoming call to a specified telephone subscriber line in-use connecting a data terminal to said data network by way of said traffic carrying telephone network.

45.(amended) The processing element of claim 40, wherein said AIN signaling message comprises an AIN call termination attempt message.

56.(new) In a switched telephone network comprising:

a first switch;

a first signal switching point associated with said first switch;

a second switch;

a second signal switching point associated with said second switch;

a processing element in communication with said second signal switching point;

said first signal switching point, said second signal switching point and said processing element interconnecting in a telephony signaling network;

a method of dispatching a message indicative of an incoming call, originating

with a caller interconnected with said first switch to a subscriber line interconnected with said second switch, to a terminal in communication with a data network, said method comprising:

a. receiving a first signaling message from said first signaling point at said second signaling point;

b. in response to said first signaling message, dispatching a second signaling message from said second signaling point to said processing element;

c. in response to said second signaling message, dispatching a third signaling message from said processing element to said data network gateway;

d. in response to said third signaling message, dispatching a data message from said network gateway over said data network to said data terminal.

57.(new) The method of claim 56, wherein said signaling network comprises an intelligent network, and wherein said second signaling message comprises a termination attempt message.

58.(new) The method of claim 57, wherein said second signaling message is dispatched prior to establishing a call path to said second switch for said incoming call.

59.(new) The method of claim 58, wherein said second signaling comprises a telephone dial number identifying said subscriber line.

60.(new) The method of claim 56, wherein said signaling network comprises an advanced intelligent network (AIN), and said first and second switching points each comprise an AIN service switching point (SSP).

61.(new) The method of claim 60, wherein said processing element comprises an

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